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Fig. 1

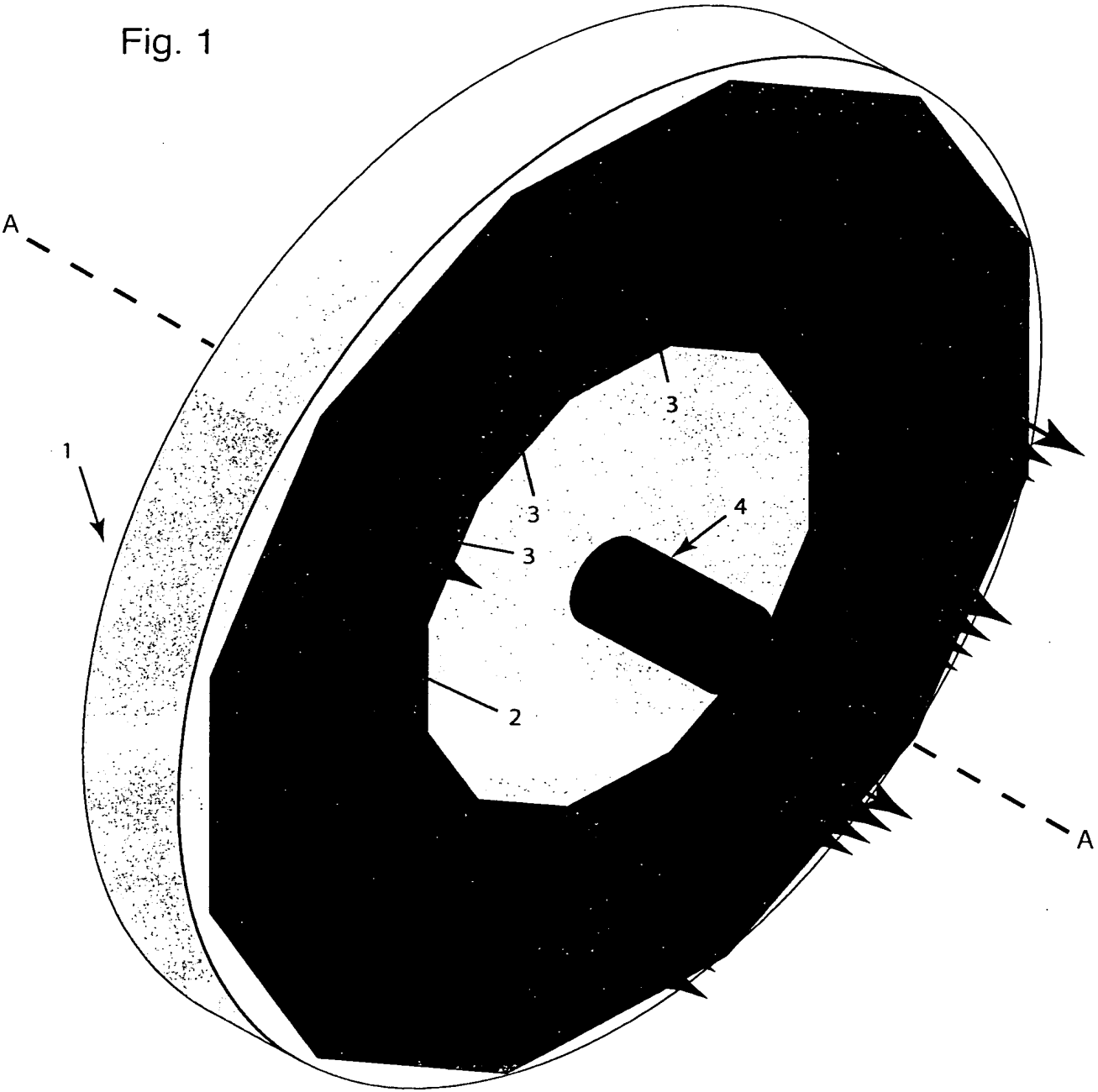


Fig. 2

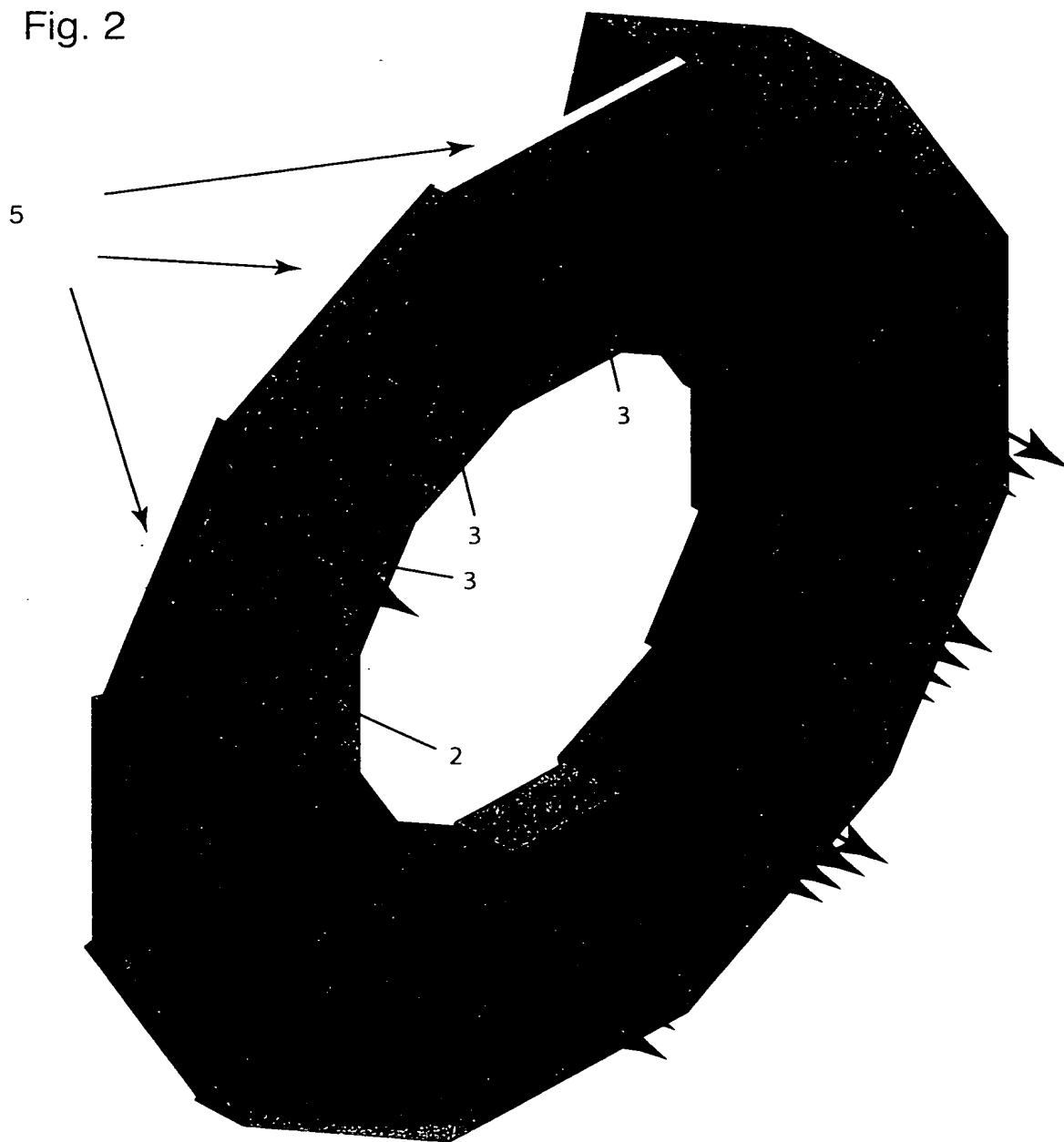


Fig. 3

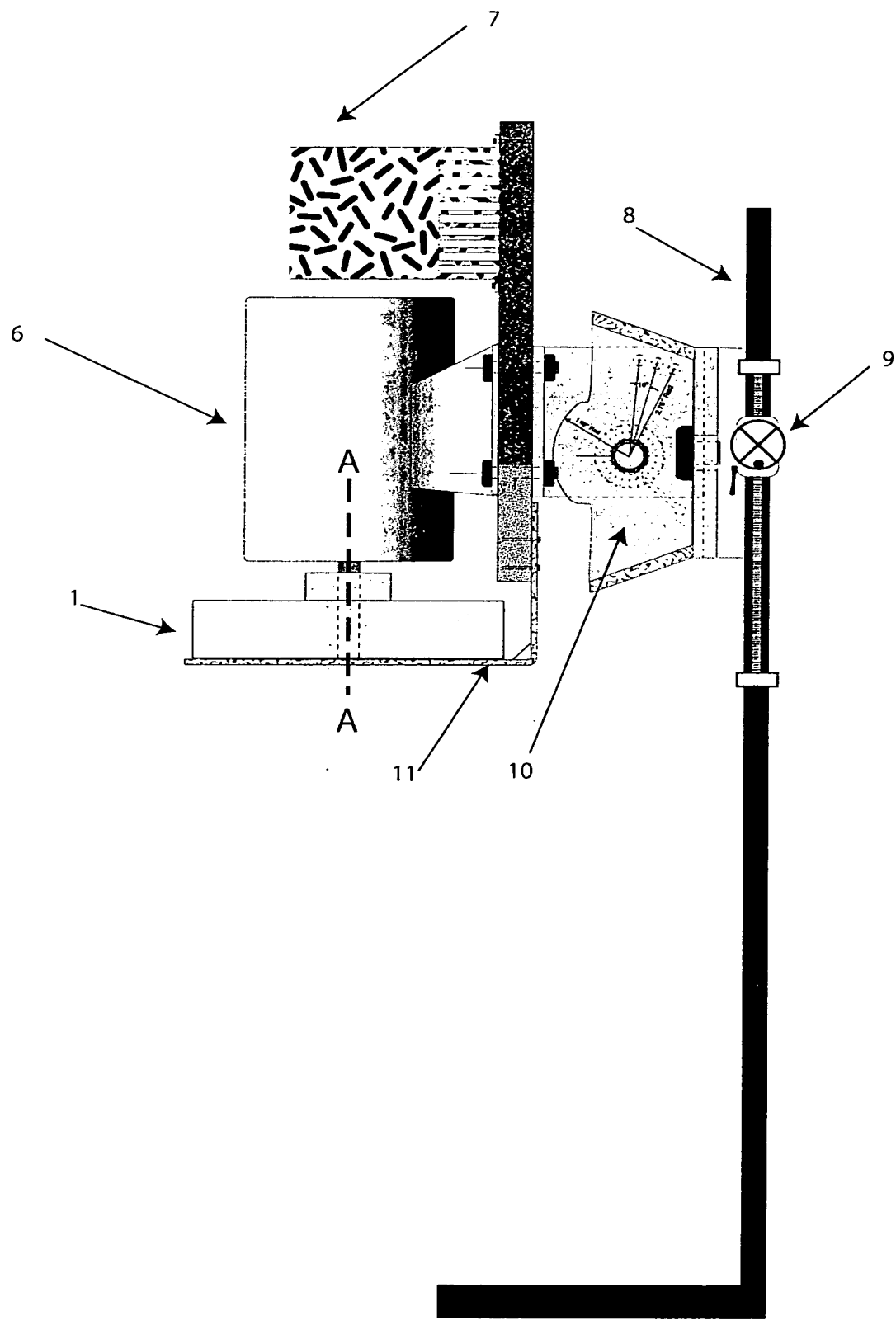


Fig. 4

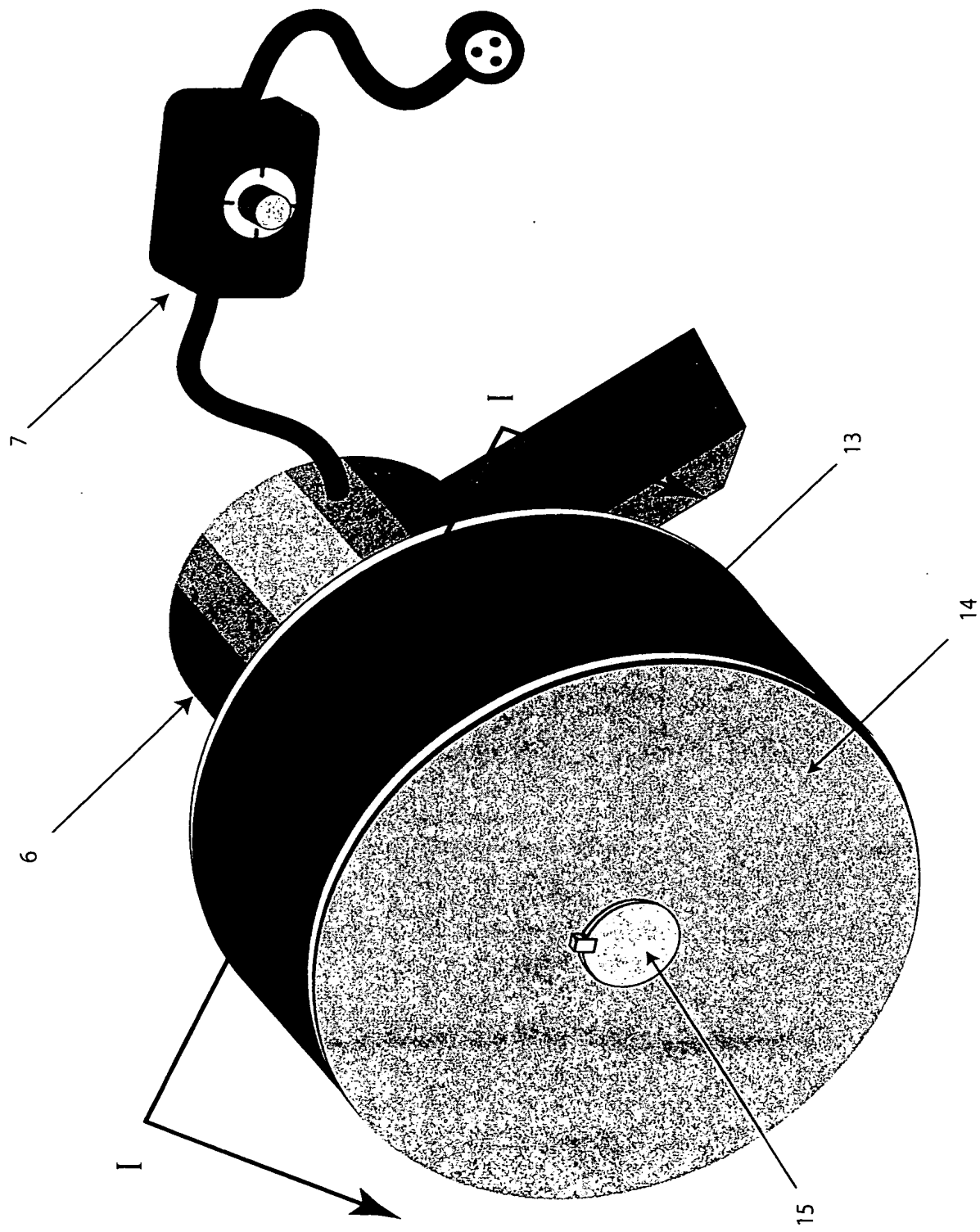


Fig. 5

Section I-I

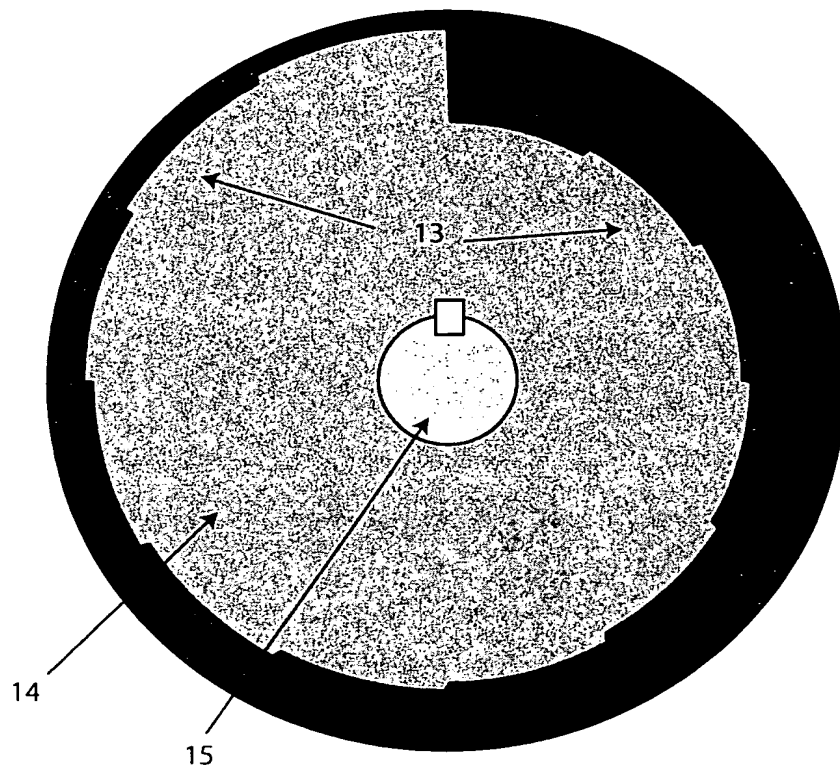


Fig.6

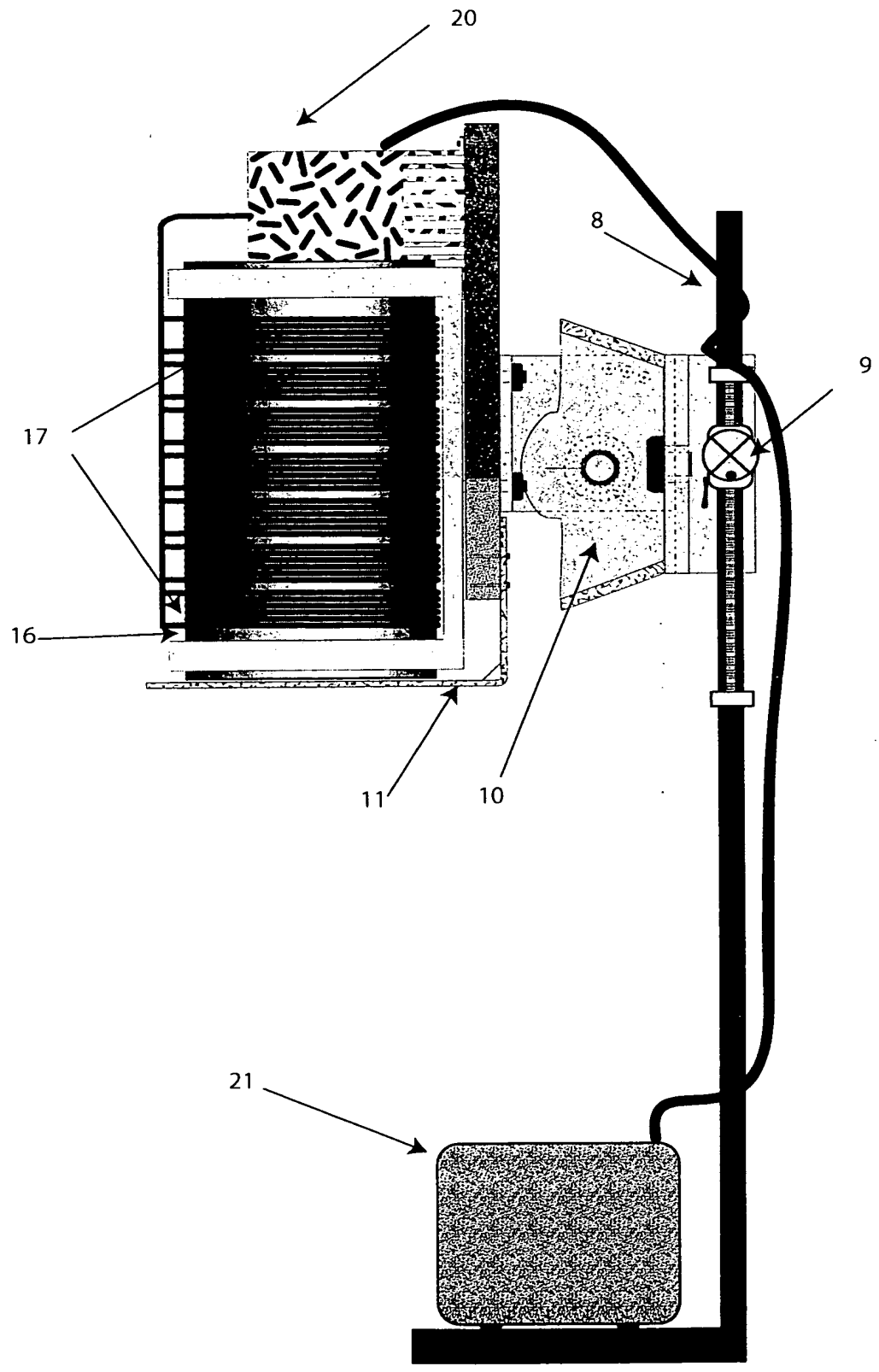


Fig. 7

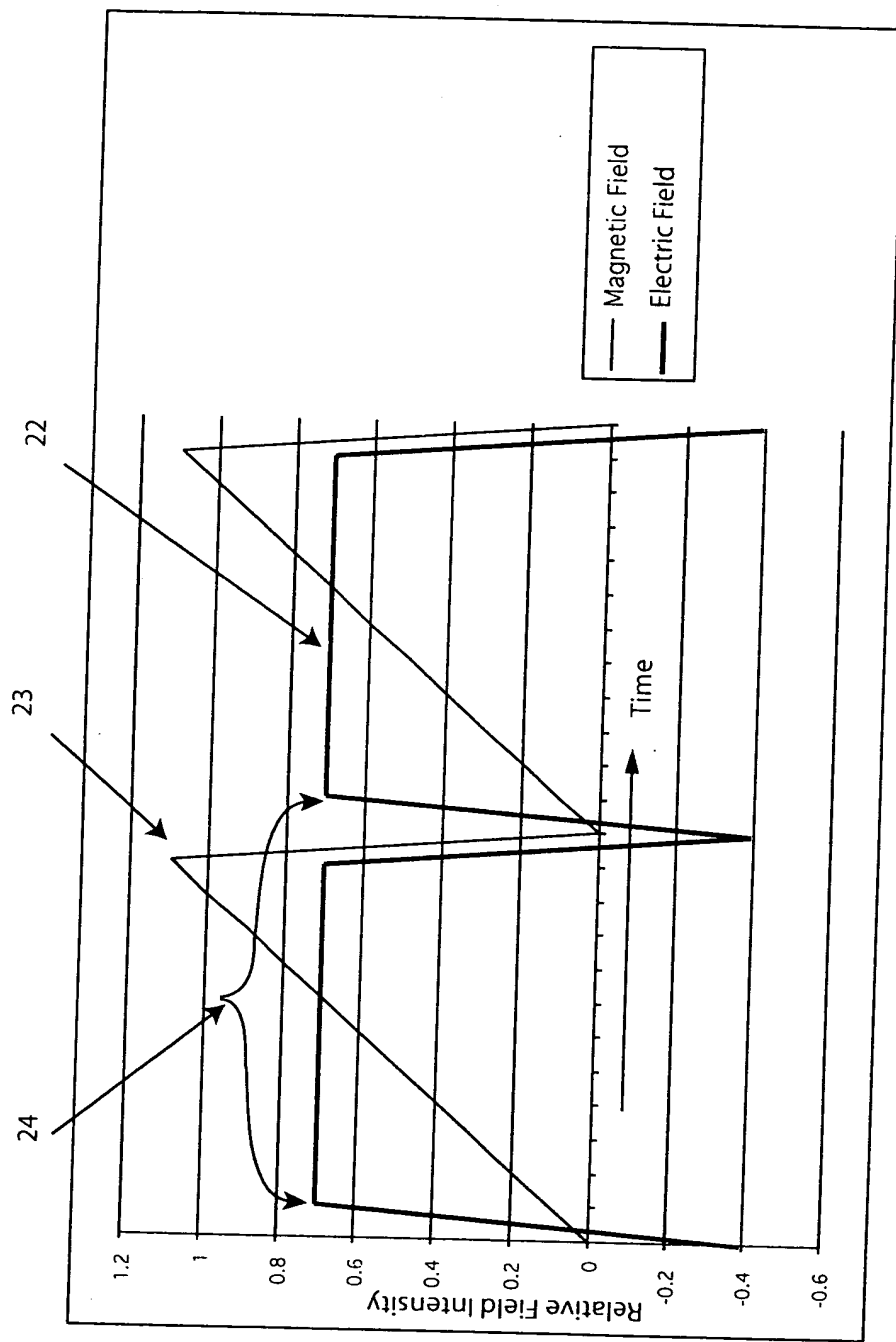
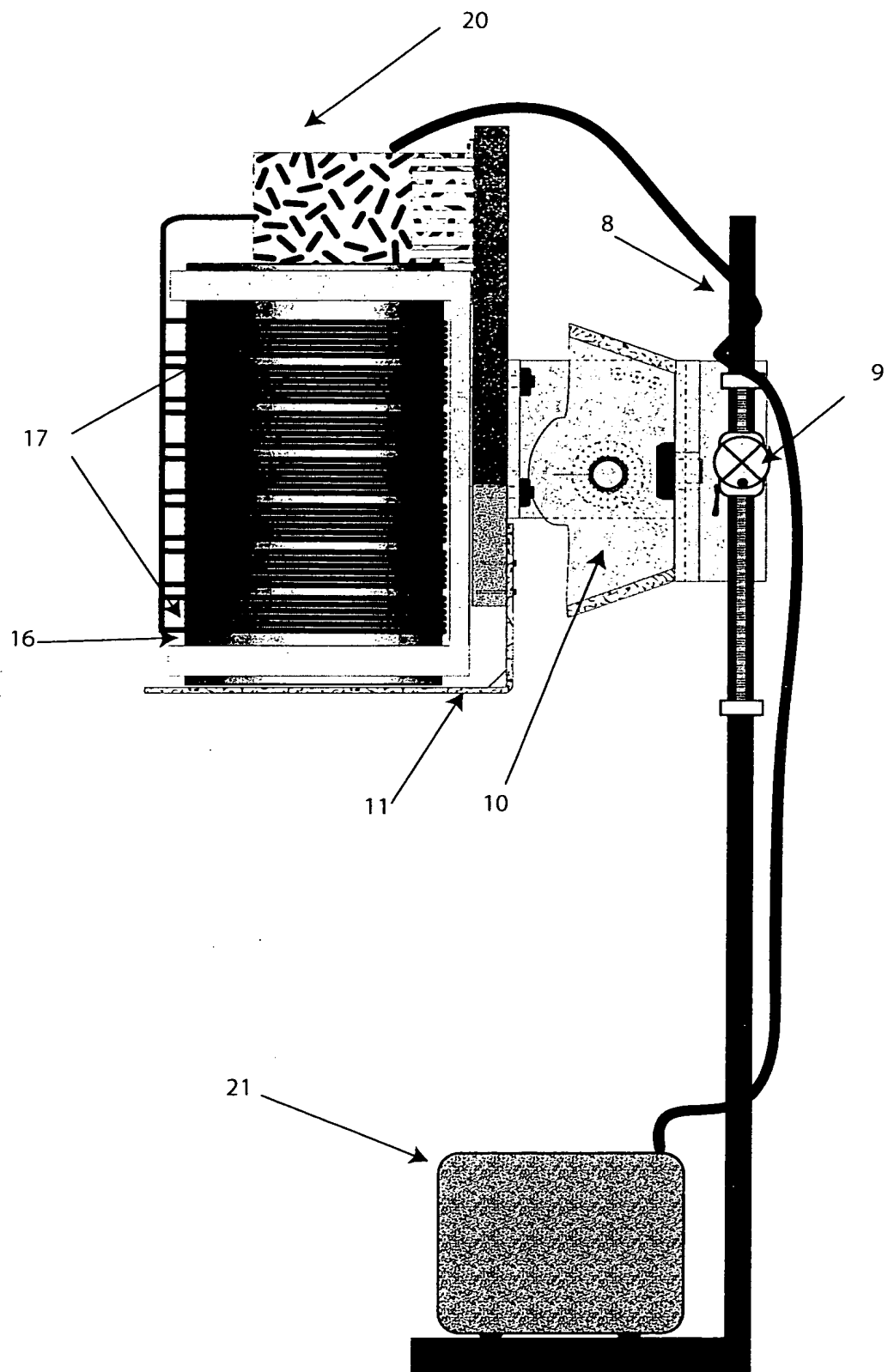


Fig. 8



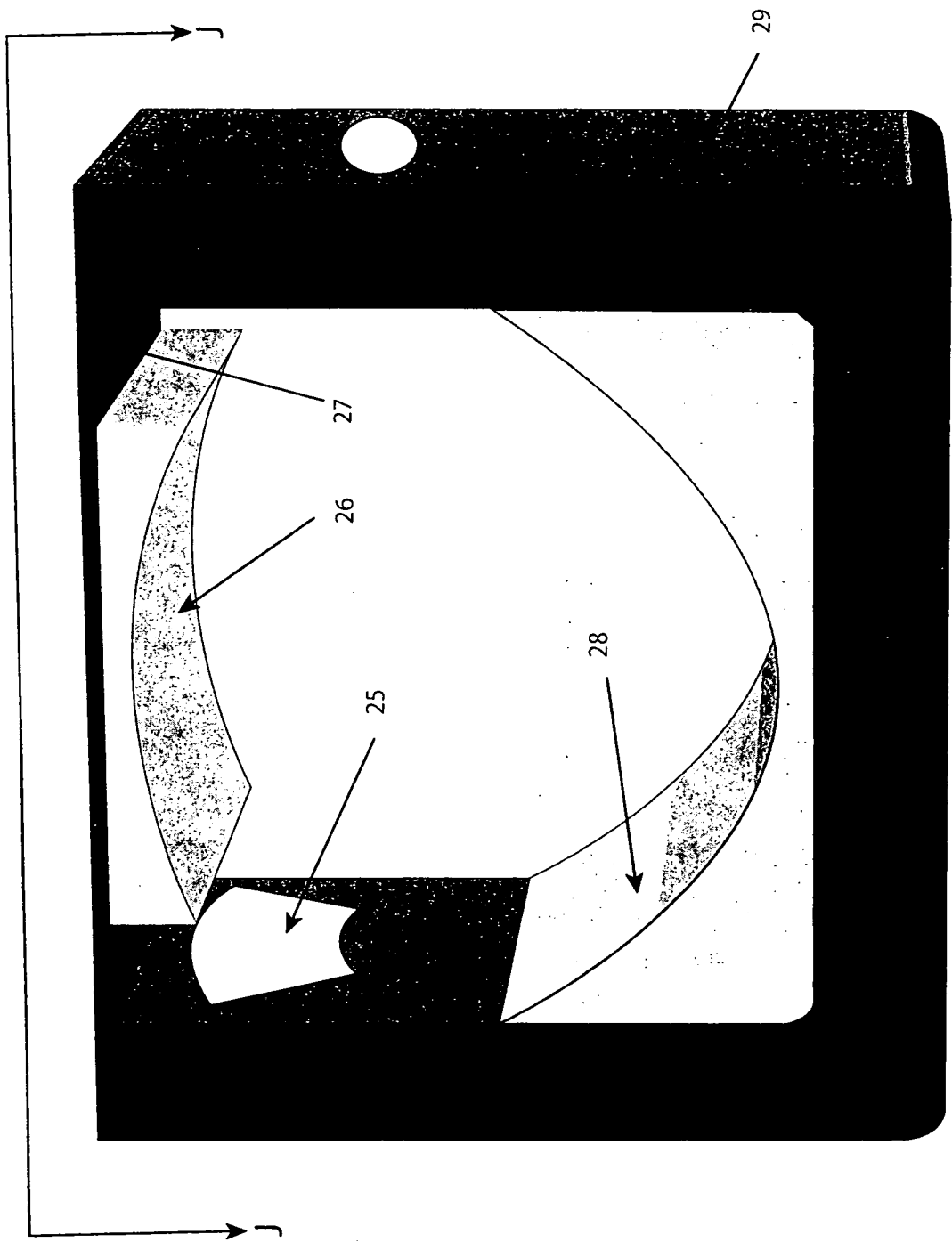


Fig. 9

Fig.10

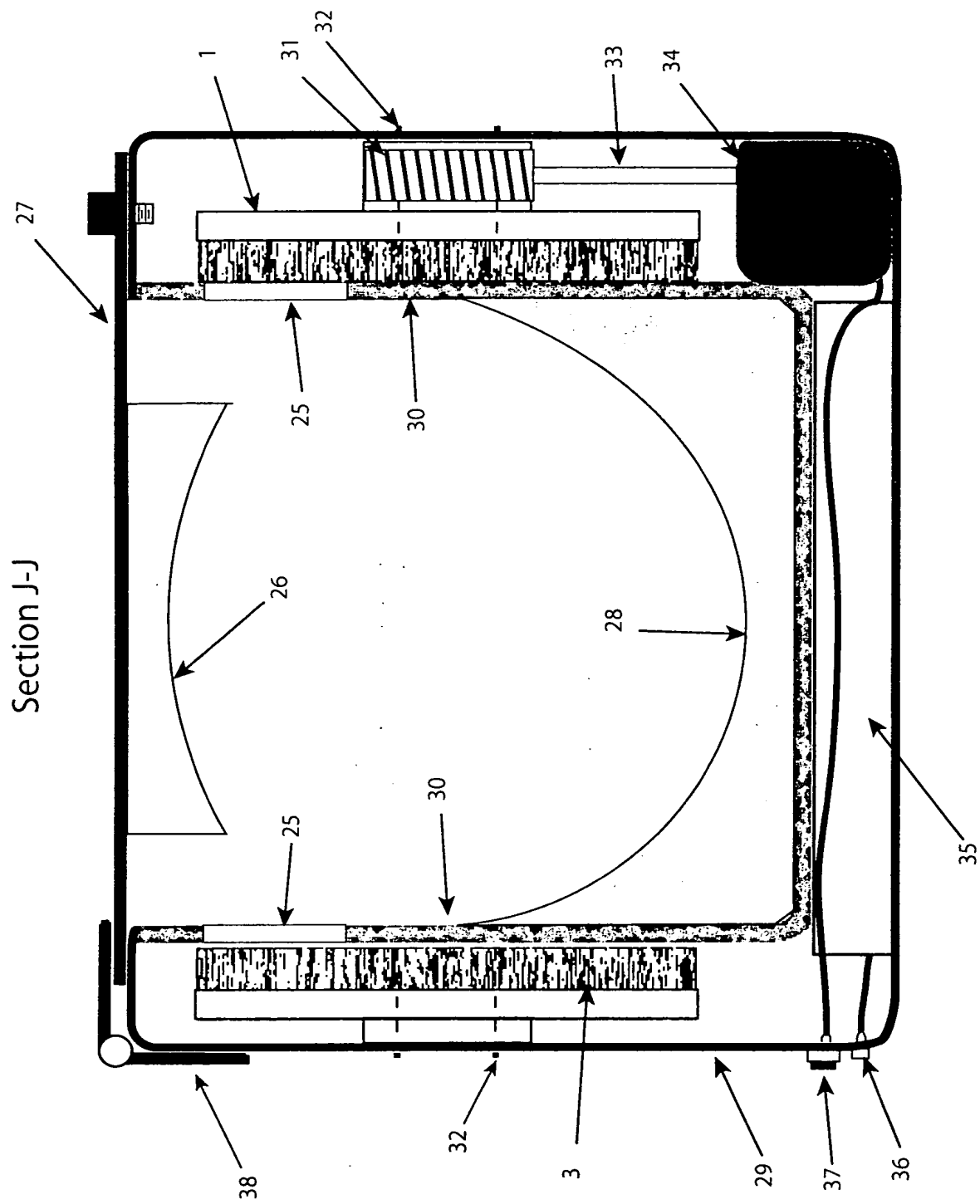


FIG. 11

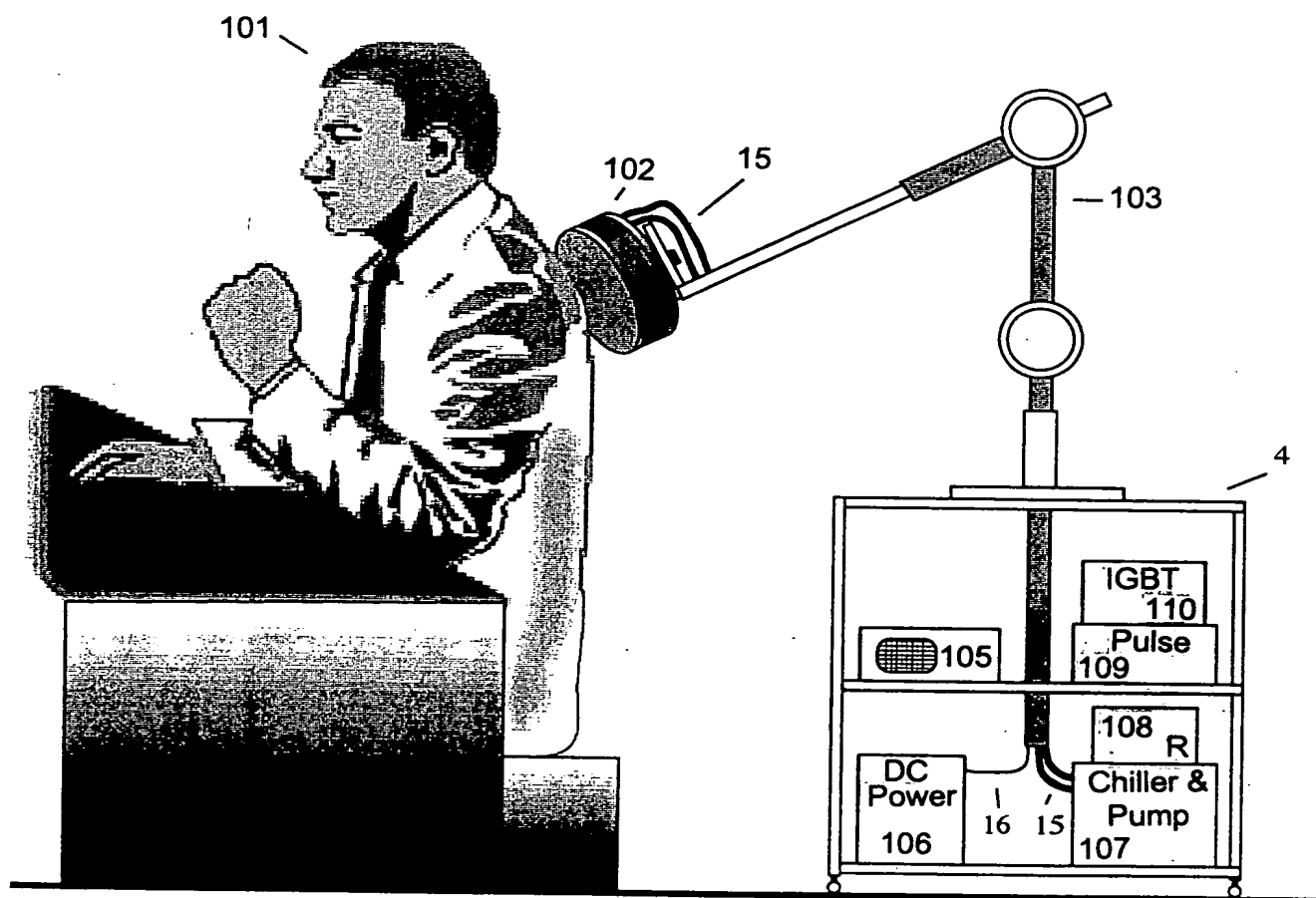
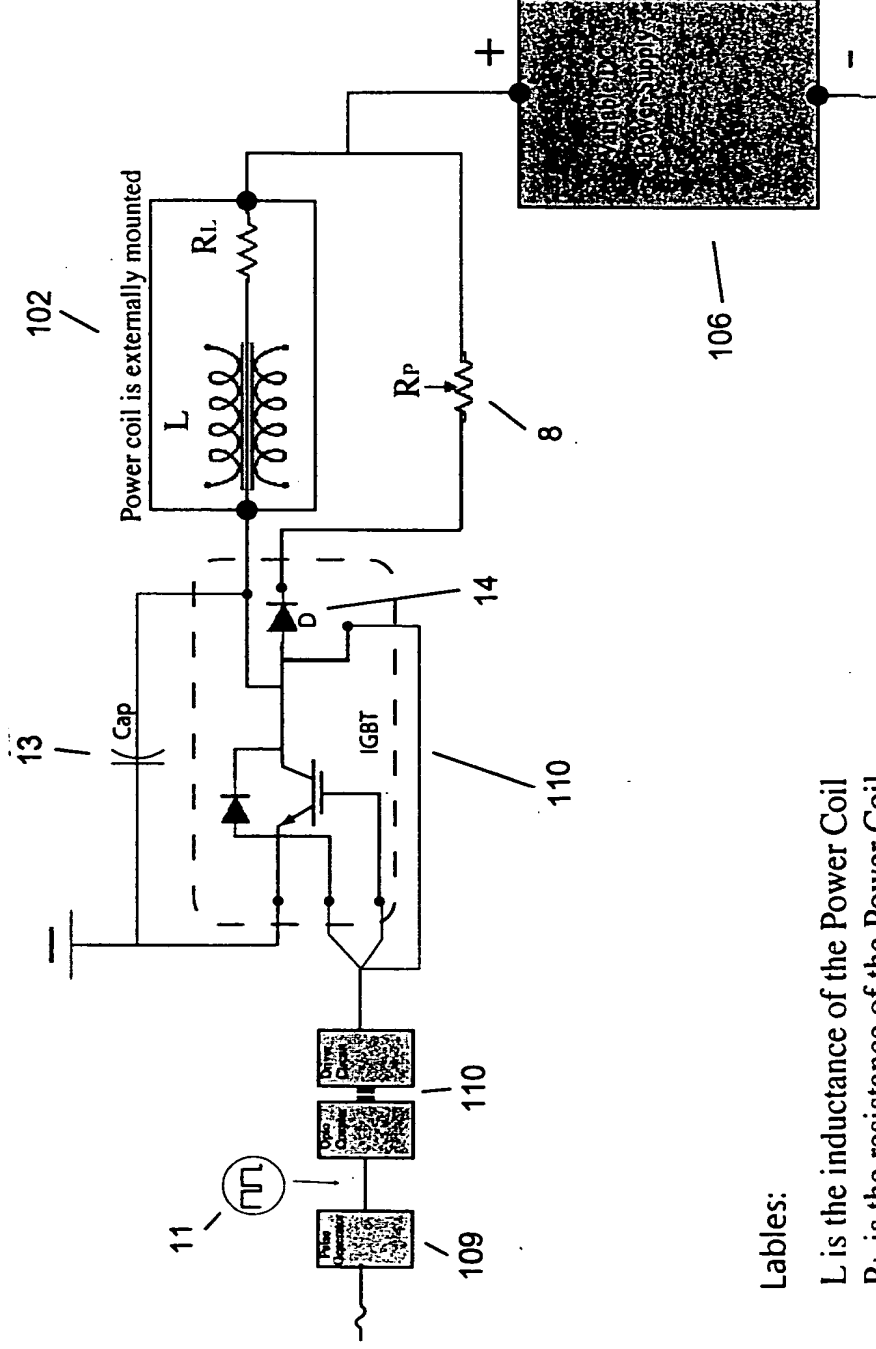


FIG. 12



Labels:

L is the inductance of the Power Coil

R_L is the resistance of the Power Coil

R_P is the high resistance of the decay circuit

D is the blocking diode preventing reverse current flow

IGBT is a high speed gate that opens and closes the circuit

FIG. 13A

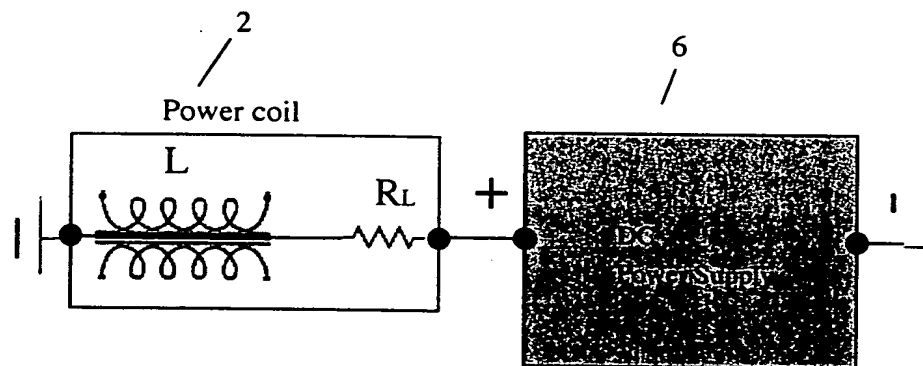


FIG. 13B

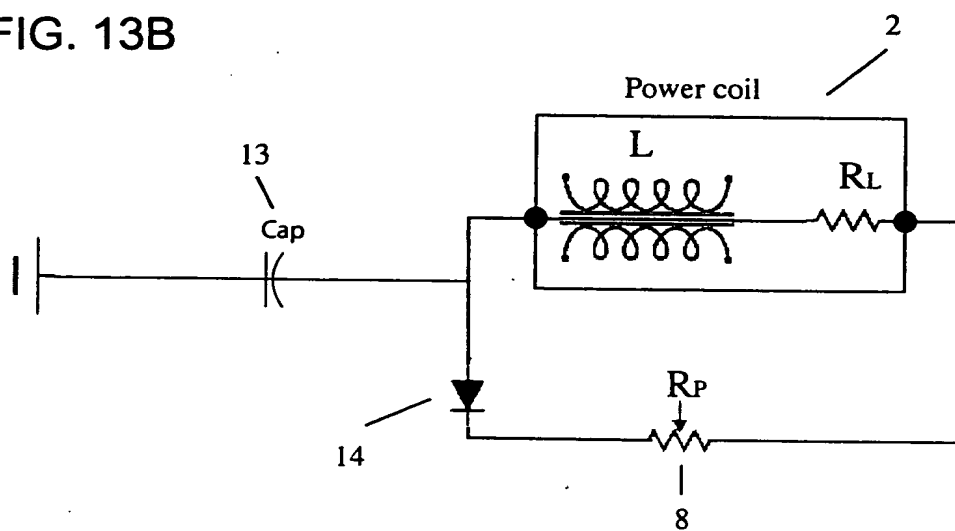


FIG. 14A

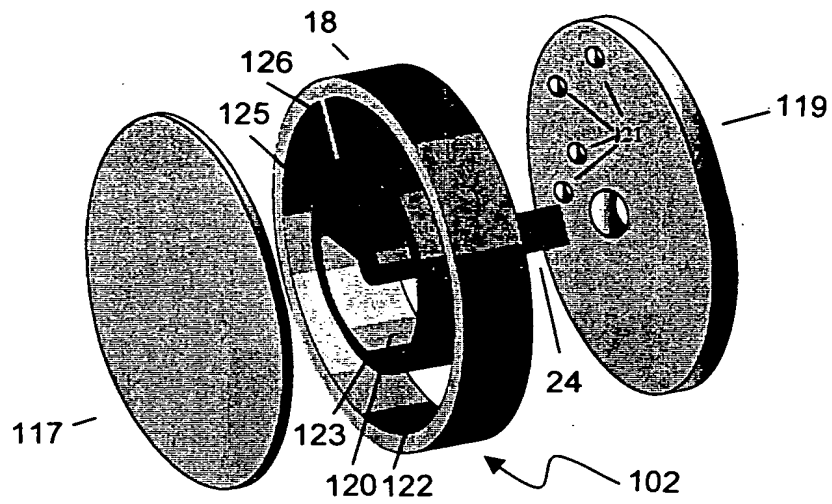


FIG. 14B

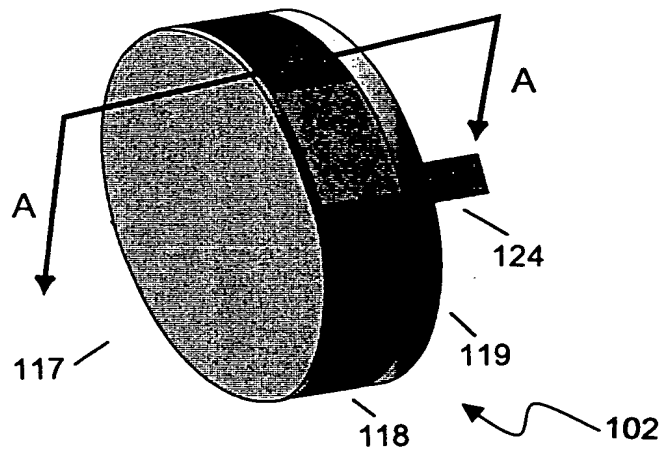
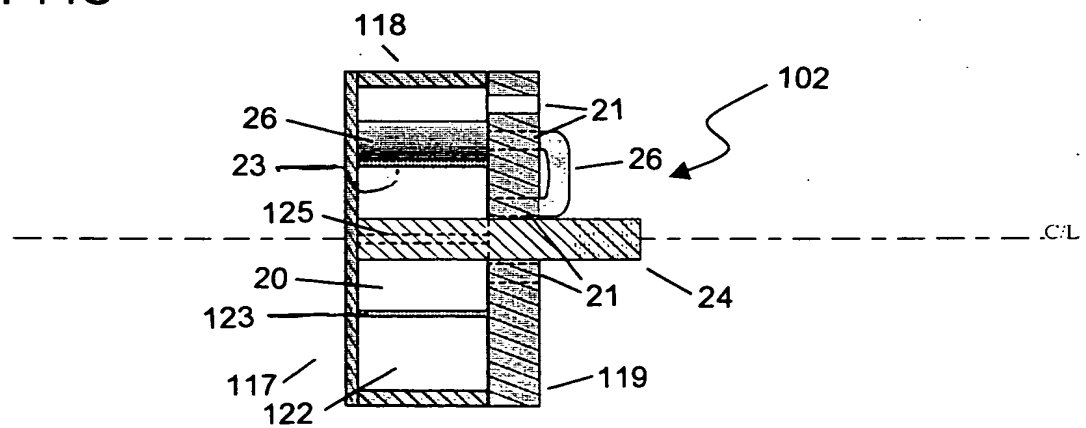


FIG. 14C



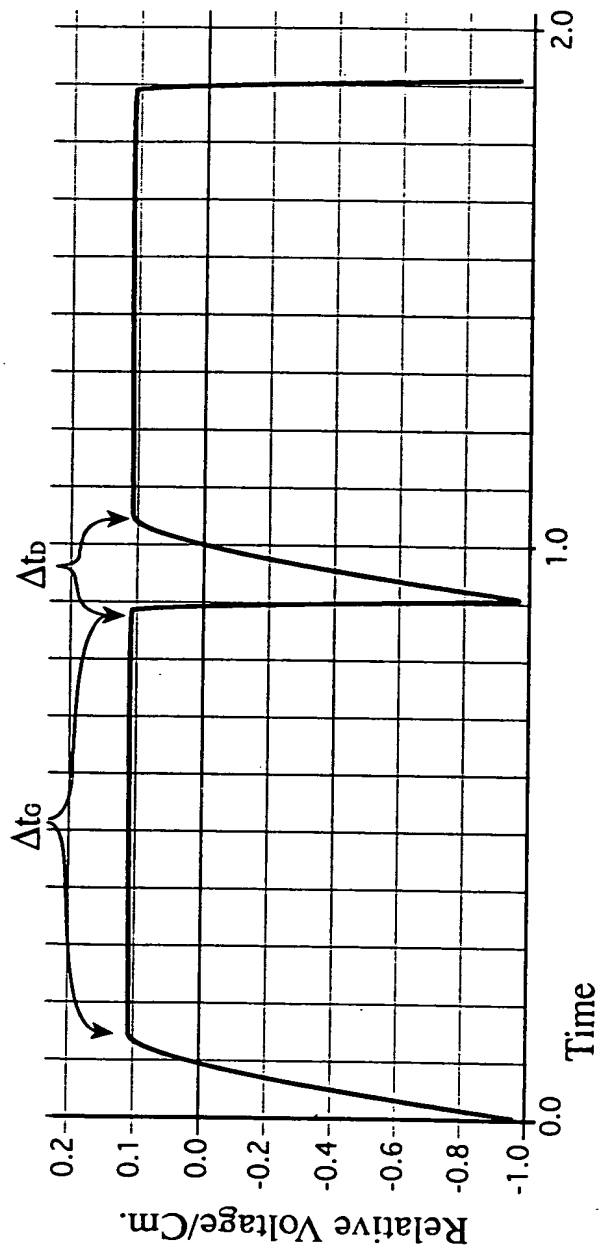


FIG. 15A

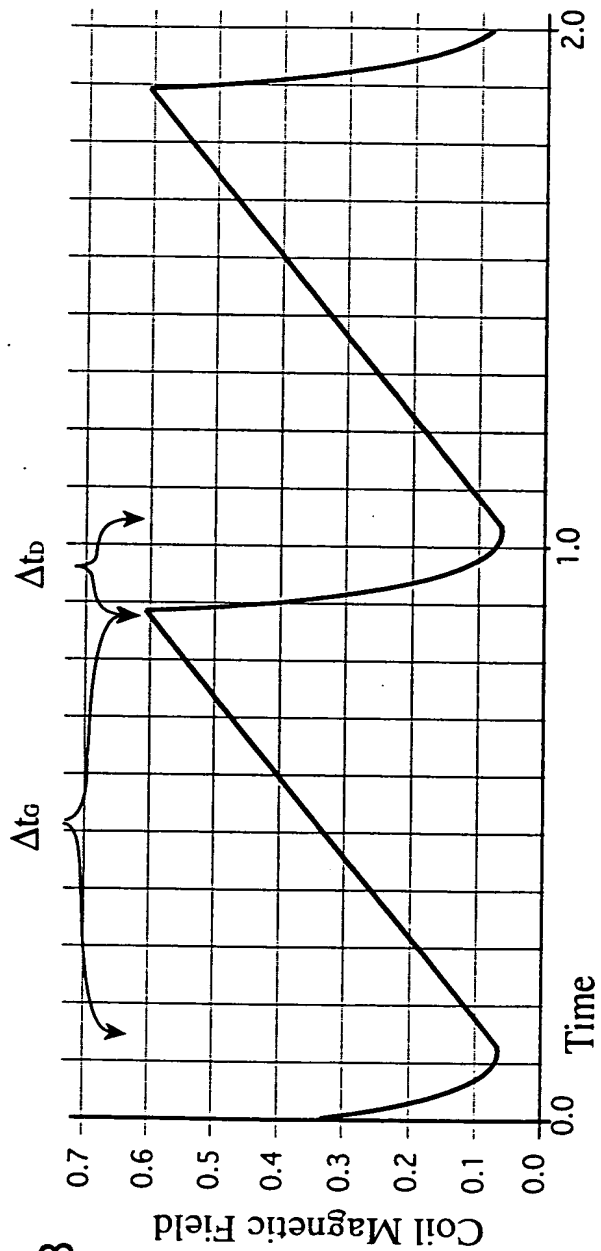


FIG. 15B

Fig. 16

E ---
 $B \& i$ —

